

**What is Claimed is:**

1. A compound power supply switch for notebook computers with an opening movement to activate a processor of a notebook computer and at the same time to disengage a display panel in an unfastening condition from the processor, the compound power supply switch comprising:
  - a coupling module located on the display panel having a latch element and at least one elastic element to keep the latch element at a latch position, the latch element being engaged with a coupling trough located on the processor at the latch position and being separated from the coupling trough at a unfastening position; and
- 10 a power supply control module having a power supply actuation element and a power supply control circuit, the power supply actuation element abutting the unfastening position and being triggered by the latch element when the latch element is located at the unfastening position to generate an actuating signal to activate the power supply of the processor through the power supply control circuit.
- 15 2. The compound power supply switch for notebook computers of claim 1, wherein the latch element has a hook section and an exposed actuating section, the hook section being coupled with the coupling trough at the latch position.
3. The compound power supply switch for notebook computers of claim 2, wherein the coupling trough extends in the direction of the latch position to form a compartment to latch the hook section of the latch element.
- 20 4. The compound power supply switch for notebook computers of claim 1, wherein the power supply actuation element is a pushbutton power supply switch to generate an electromagnetic or current pulse signal through a brief contact with the latch element.
5. The compound power supply switch for notebook computers of claim 1, wherein the

power supply control circuit connects to a power supply input end located on the processor through the display panel.

6. The compound power supply switch for notebook computers of claim 1, wherein the latch element has a moving track substantially in parallel with the flat surface of the display panel.  
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7. The compound power supply switch for notebook computers of claim 6, wherein the latch element has a rectangular actuating section exposed outside the display panel and extended in the direction of the coupling trough to form a hook section, and a bucking section in contact with the elastic element.
- 10 8. The compound power supply switch for notebook computers of claim 1, wherein the latch element has a moving track substantially normal to the flat surface of the display panel.
9. The compound power supply switch for notebook computers of claim 8, wherein the latch element is formed substantially in the shape of a cake and has a hook section corresponding to the coupling trough, and an axle strut located respectively on two sides thereof to couple with the elastic element to push and turn the latch element about the axle strut to the unfastening position.  
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10. The compound power supply switch for notebook computers of claim 1, wherein the coupling module and the power supply control module are located on the processor, the coupling trough corresponding to the latch element being located on the display panel.  
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11. A compound power supply switch for notebook computers with an opening movement to activate a processor of a notebook computer and at the same time to disengage a display panel in an unfastening condition from the processor, the

compound power supply switch comprising:

- a coupling module located on the display panel having a latch element and at least one elastic element to keep the latch element at a latch position, the latch element being engaged with a coupling trough located on the processor at the latch position and being separated from the coupling trough at a unfastening position, the connecting track between the latch position and the unfastening position being substantially in parallel with the flat surface of the display panel; and
- 5 a power supply control module having a power supply actuation element and a power supply control circuit, the power supply actuation element abutting the unfastening position and being triggered by the latch element when the latch element is located at the unfastening position to generate an actuating signal to activate the power supply of the processor through the power supply control circuit.
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12. The compound power supply switch for notebook computers of claim 11, wherein the latch element has a rectangular actuating section exposed outside the display panel and extended in the direction of the coupling trough to form a hook section, and a bucking section in contact with the elastic element.
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13. The compound power supply switch for notebook computers of claim 12, wherein the coupling trough extends in the direction of the latch position to form a compartment to latch the hook section of the latch element.
- 20 14. The compound power supply switch for notebook computers of claim 11, wherein the power supply actuation element is a pushbutton power supply switch to generate an electromagnetic or current pulse signal through a brief contact with the latch element.
15. The compound power supply switch for notebook computers of claim 11, wherein

the coupling module and the power supply control module are located on the processor, the coupling trough corresponding to the latch element being located on the display panel.

16. A compound power supply switch for notebook computers with an opening movement to activate a processor of a notebook computer and at the same time to disengage a display panel in an unfastening condition from the processor, the compound power supply switch comprising:

10        a coupling module located on the display panel having a latch element and at least one elastic element to keep the latch element at a latch position, the latch element being engaged with a coupling trough located on the processor at the latch position and being separated from the coupling trough at a unfastening position, the connecting track between the latch position and the unfastening position being substantially normal to the flat surface of the display panel; and

15        a power supply control module having a power supply actuation element and a power supply control circuit, the power supply actuation element abutting the unfastening position and being triggered by the latch element when the latch element is located at the unfastening position to generate an actuating signal to activate the power supply of the processor through the power supply control circuit.

17. The compound power supply switch for notebook computers of claim 16, wherein  
20        the latch element is formed substantially in the shape of a cake and has a hook section corresponding to the coupling trough, and an axle strut located respectively on two sides thereof to couple with the elastic element to push and turn the latch element about the axle strut to the unfastening position.

18. The compound power supply switch for notebook computers of claim 17, wherein

the coupling trough extends in the direction of the latch position to form a compartment to latch the hook section of the latch element.

19. The compound power supply switch for notebook computers of claim 17, wherein the power supply actuation element is a pushbutton power supply switch to generate  
5 an electromagnetic or current pulse signal through a brief contact with the latch element.
20. The compound power supply switch for notebook computers of claim 16, wherein the coupling module and the power supply control module are located on the processor, the coupling trough corresponding to the latch element being located on  
10 the display panel.